

## ABSTRACT OF THE DISCLOSURE

A method is provided for improving the performance of concentrated codes which includes the steps of generating check bits from information bits, which are represented by an information matrix, by an outer code, shifting cyclically the  
5 information bits and the check bits to obtain an interleaved code matrix, and then coding the bits of the interleaved code matrix by an inner code, where at least the outer code or the inner code is a product code.